O I P E
AUG 1 9 2004
PATENT & TRADEMARK OFFICE

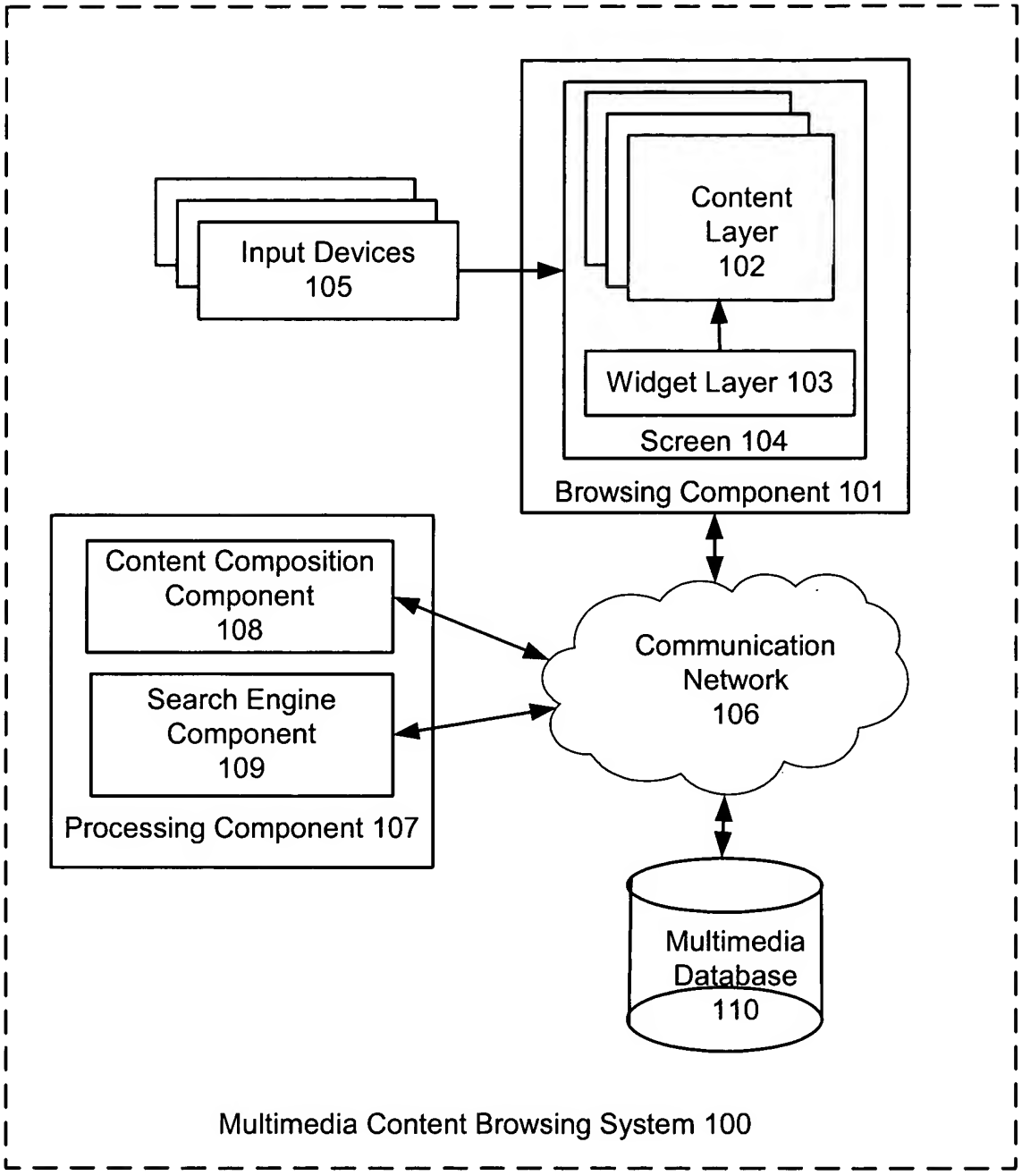


Figure 1

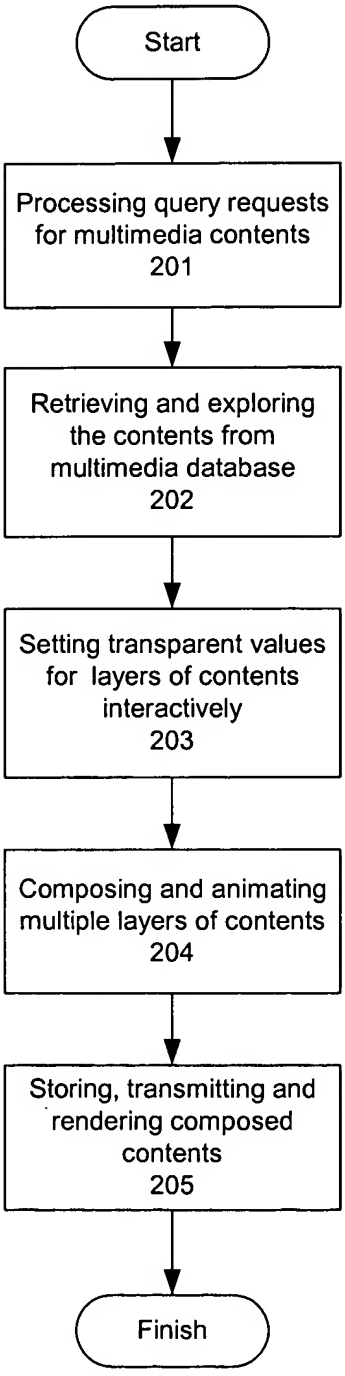

Start
Processing query requests for multimedia contents 201
Retrieving and exploring the contents from multimedia database 202
Setting transparent values for layers of contents interactively 203
Composing and animating multiple layers of contents 204
Storing, transmitting and rendering composed contents 205
Finish

Figure 2

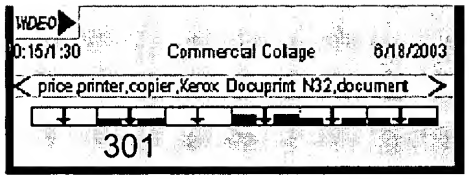


Figure 3 (a)

Figure 3 (b)

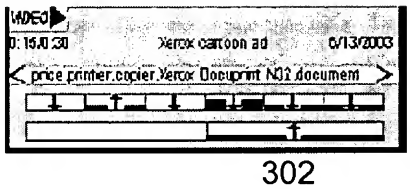


Figure 3 (c)

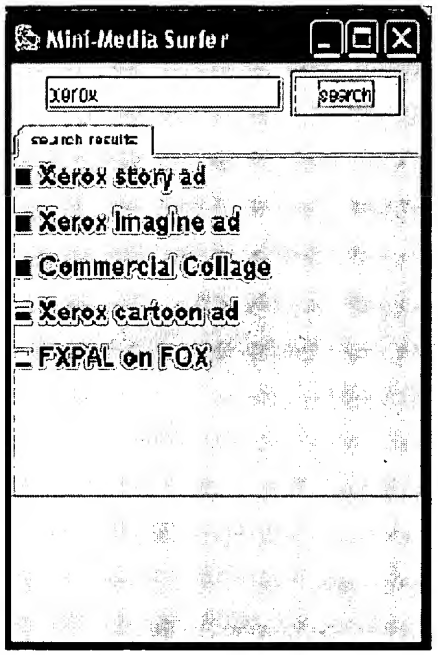


Figure 4 (a)

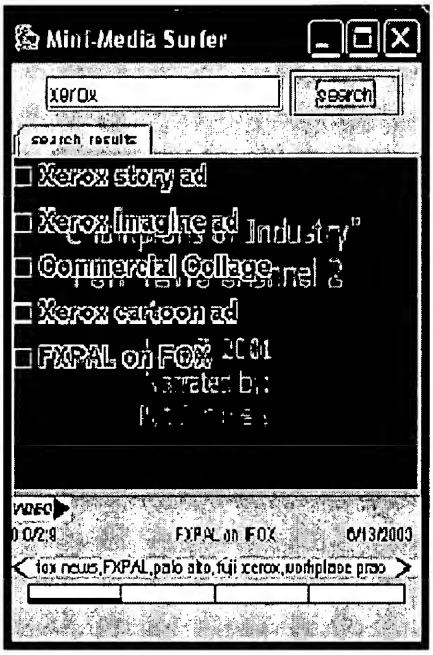
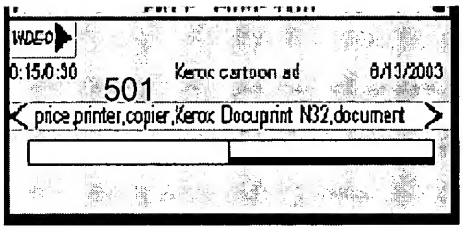
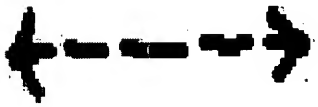


Figure 4 (b)

Figure 4 (c)





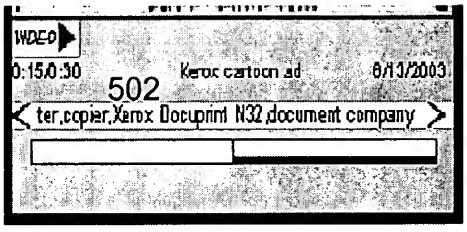


Figure 5 (a) Figure 5 (b) Figure 5 (c)

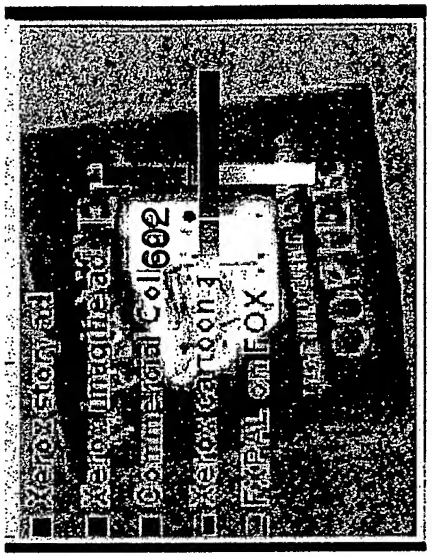


Figure 6 (c)

Figure 6 (b)

Figure 6 (a)

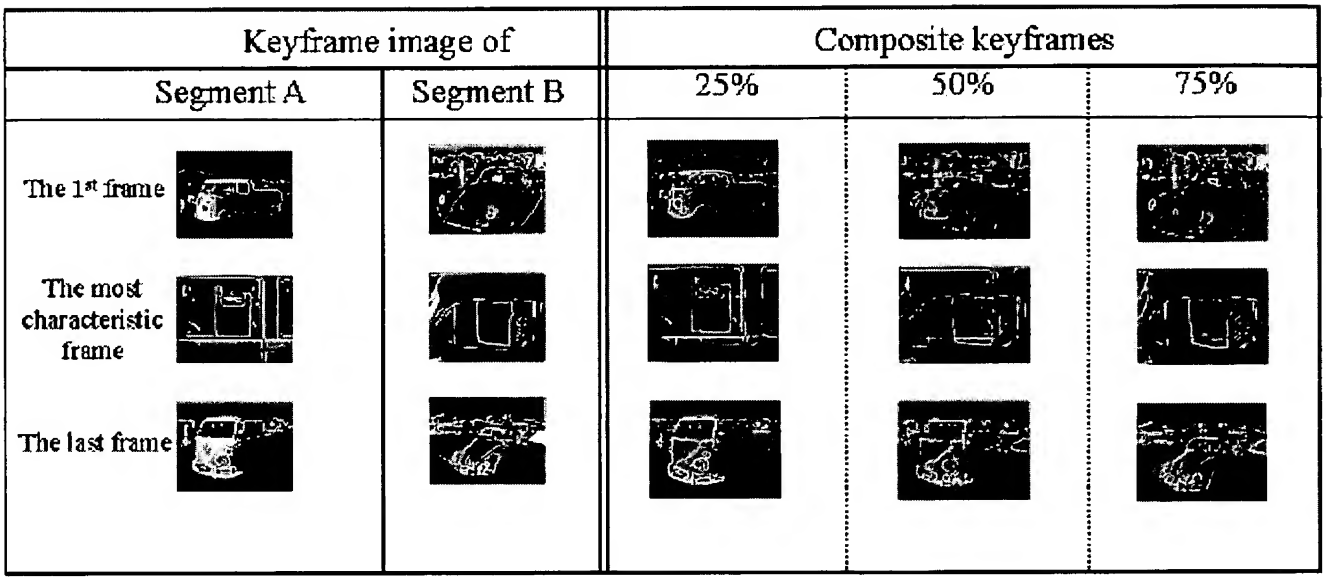

Keyframe image of
Composite keyframes
Segment A
Segment B
25%
50%
75%
The 1st frame
The most characteristic frame
The last frame

Figure 7

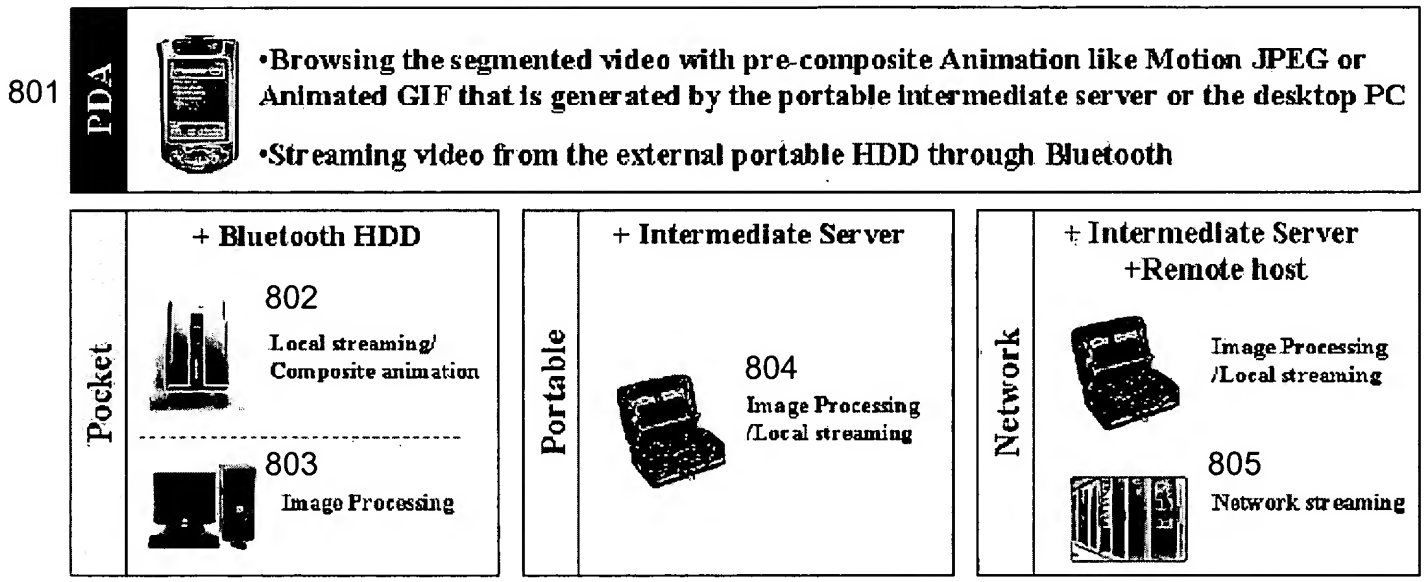


Figure 8 (a) Figure 8 (b) Figure 8 (c)

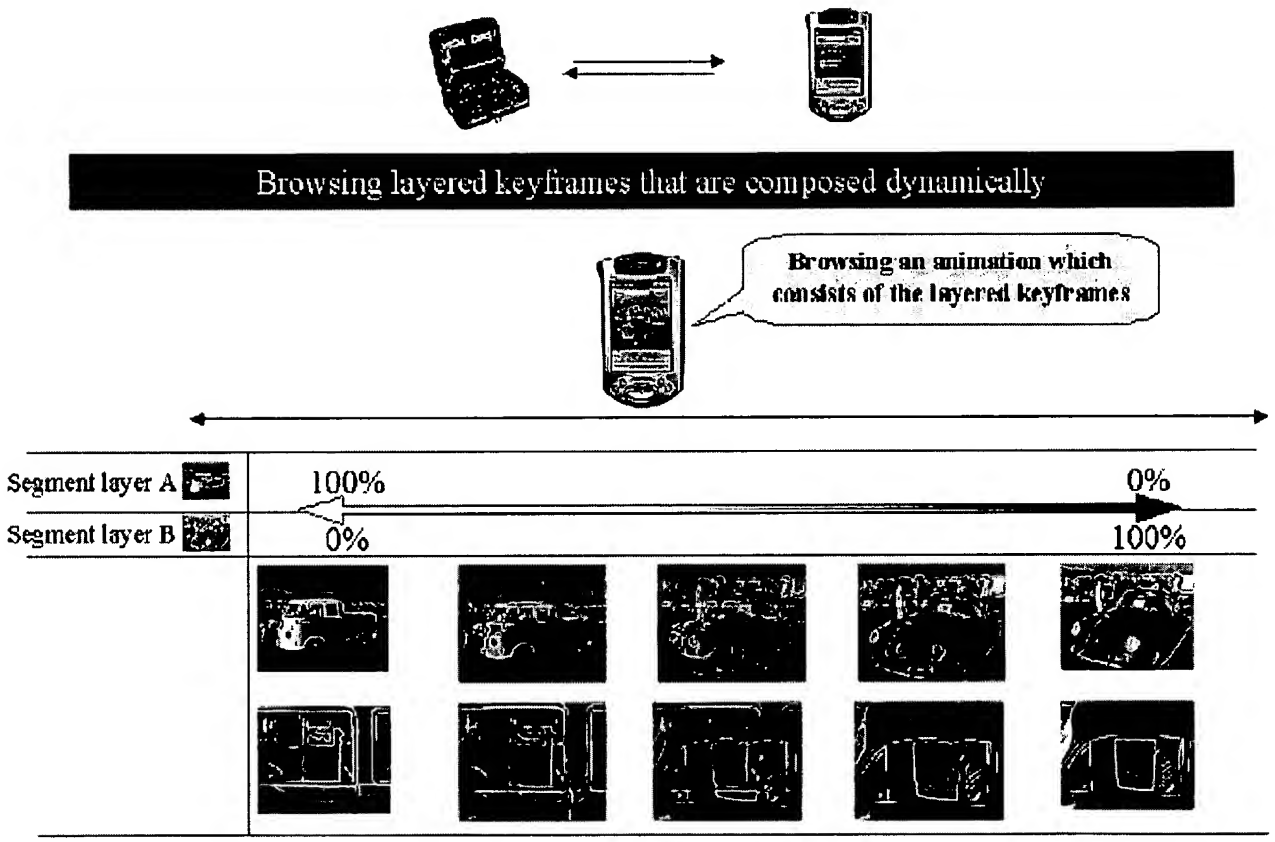

Browsing layered keyframes that are composed dynamically
Browsing an animation which consists of the layered keyframes
Segment layer A
Segment layer B
100%
0%
0%
100%

Figure 9